

## TITLE: WAXER FOR AUTOMOBILES

### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

This invention is related to a waxer for automobiles and in particular to  
5 one which will prevent the user's hand from being injured and can be operated  
with one hand only.

#### 2. Description of the Prior Art

The conventional waxer is bulky and heavy, thereby making it unsafe and  
difficult to operate. Further, it is powered by electricity by means of an  
10 electrical cord C (see FIG. 1) which causes further inconvenience and possible  
danger. Furthermore, one hand must be used to hold the bottom portion B of  
the waxer, while the other holds the top handle A, making the waxer's  
operation tiring for the user. This kind of machine is large in size and it is  
impossible to use this apparatus for waxing corners.

15 Therefore, it is an object of the present invention of the present invention  
to provide an improved wax for automobiles which can obviate and mitigate  
the above-mentioned drawbacks.

## SUMMARY OF THE INVENTION

This invention is related to an improvement in the structure of a waxer for automobiles.

According to the present invention, a waxer for automobiles includes an  
5 upper having a top provided with a switch for controlling power to the waxer,  
a lower edge of the upper cover being provided with a plurality of hooks, a  
seat on which is mounted the upper cover, with the hooks engaged with  
respective recesses of the seat, the seat being formed with a cavity,  
rechargeable batteries arranged in the cavity, an electric motor disposed within  
10 the cavity and electrically connected with the rechargeable batteries and the  
switch, a base on which is mounted the seat, the base being formed with a  
circular chamber at a central portion thereof and four tubular portions at four  
corners thereof, an eccentric block disposed within the circular chamber and  
eccentrically affixed on an output axle of the electric motor, a sponge affixed  
15 to a bottom of the base, and cover enclosing the sponge.

It is the primary object of the present invention to provide an improved  
waxer for automobiles which will prevent the user's hand from being injured.

It is another object of the present invention to provide an improved waxer  
for automobiles which can be operated with one hand only.

20 It is still another object of the present invention to provide an improved

waxer for automobiles which does not require a power cord to connect with a power source.

It is still another object of the present invention to provide an improved waxer for automobiles which is compact in size.

- 5 It is a further object of the present invention to provide an improved waxer for automobiles which can be also used for waxing furniture.

The foregoing object and summary provide only a brief introduction to the present invention. To fully appreciate these and other objects of the present invention as well as the invention itself, all of which will become  
10 apparent to those skilled in the art, the following detailed description of the invention and the claims should be read in conjunction with the accompanying drawings. Throughout the specification and drawings identical reference numerals refer to identical or similar parts.

- Many other advantages and features of the present invention will become  
15 manifest to those versed in the art upon making reference to the detailed description and the accompanying sheets of drawings in which a preferred structural embodiment incorporating the principles of the present invention is shown by way of illustrative example.

## BRIEF DESCRIPTION OF THE DRAWINGS

FIG 1 is a perspective view of a conventional waxer for automobiles;

FIG 2 is a perspective view of a waxer for automobiles according to the present invention;

5 FIG 3 is an exploded view of the present invention; and

FIG 4 is a sectional view of the present invention.

## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The following descriptions are of exemplary embodiments only, and are not intended to limit the scope, applicability or configuration of the invention in any way. Rather, the following description provides a convenient

5 illustration for implementing exemplary embodiments of the invention.

Various changes to the described embodiments may be made in the function and arrangement of the elements described without departing from the scope of the invention as set forth in the appended claims.

With reference to the drawings and in particular to FIGS. 2 and 3 thereof,  
10 the waxer according to the present invention generally comprises an upper cover 2, an inverted U-shaped member 3, rechargeable batteries 4, an electric motor 5, a mounting plate 6, an eccentric block 8, a seat 9, a plurality of rubber members 10, a base 11, a sponge 12 and a cover 13.

The upper cover 2 is provided on the top with a switch 21 for controlling  
15 the power to the waxing device according to the present invention. The lower edge of the upper cover 2 is provided with a plurality of hooks. The upper cover 2 is fitted on the top of the seat 9, with the hooks engaged with respective recesses of the seat 9. The seat 9 is formed with a cavity in which is arranged the rechargeable batteries 4 by the mounting plate 6. The electric  
20 motor 5 is disposed within the cavity of the seat 9 and electrically connected

with the rechargeable batteries 4 and the switch 21. The seat 9 is provided with an electric socket which is engageable with a power adaptor 14. The cavity of the seat 9 is formed with four inwardly extending lugs each having a hole. The seat 9 is mounted on the base 11. The base 11 is formed with a

5 circular chamber 112 at the central portion and four tubular portions 111 at four corners. The eccentric block 8 is disposed within the circular chamber 112 of the base 11 and eccentrically affixed on an output axle of the electric motor 5. The sponge 12 is affixed to the bottom of the base 11. The cover 13 is made of cloth for enclosing the sponge 12. As shown in FIGS. 3 and

10 3A, the rubber member 10 is a cylindrical member having two conical ends. The rubber member 10 is mounted so that its lower end is fitted in the tubular portion 111 of the base and its upper end is fitted in the hole of the inwardly extending lug of the seat.

When in use, a user simply places the waxer according to the present

15 invention on a vehicle, turns on the switch 21 on the upper cover 2 and then move the waxer on the surface of the vehicle. As the waxer is turned on, the output axle of the electric motor 5 will rotate thereby rotating the eccentric block 8 and therefore providing vibration to polish a foamy wax of anionic active agent which has been sprayed upon the vehicle. The present invention

20 is characterized by the connection between the base 11 and the seat 9, i.e. the

rubber members 10 which will absorb the vibration to the hand of the user thereby protecting the hand of the user from being injured.

It will be understood that each of the elements described above, or two or more together may also find a useful application in other types of methods

5 differing from the type described above.

While certain novel features of this invention have been shown and described and are pointed out in the annexed claim, it is not intended to be limited to the details above, since it will be understood that various omissions, modifications, substitutions and changes in the forms and details of the device

10 illustrated and in its operation can be made by those skilled in the art without departing in any way from the spirit of the present invention.